

ABSTRACT

A high frequency communication device which can reduce undesired electromagnetic coupling inside and outside a box thereof in which circuit parts constituting a transmitter-receiver circuit are contained.

Periodic structures (6) are provided on at least a part of a wall constituting a box (1, 4, 5) so that the periodic structures (6) serve as a filter which has a non-propagating frequency band corresponding a frequency band covering an undesired electromagnetic emission inside the box. Thus, undesired electromagnetic emission energy from any electromagnetic emission source can be confined locally to prevent a possible problem of electromagnetic interference.